

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 79-29

NPDES PERMIT NO. CA0038393
WASTE DISCHARGE REQUIREMENTS FOR:

SEAFIRTH ESTATES COMPANY AND
PROPERTY OWNERS WITHIN THE
BOUNDARIES OF SEAFIRTH ESTATES
SUBDIVISION, MARIN COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region
(hereinafter called the Board) finds that:

1. Seafirth Estates Company and property owners* within the boundaries of Seafirth Estates subdivision on the Tiburon Peninsula (hereinafter Dischargers) sewer 29 single family residences, treat the sewage in a trickling filter treatment plant and discharge the effluent into Central San Francisco Bay, a water of the United States, at 37° 54' 08" latitude and 122° 28' 08" longitude.
2. Seafirth Estates Company, by application dated December 20, 1974, has applied for waste discharge requirements and a permit to discharge wastes under the National Pollutant Discharge Elimination System.
3. A Water Quality Control Plan for the San Francisco Bay Basin was adopted by the Board in April 1975. The Basin Plan contains water quality objectives for San Francisco Bay.
4. The beneficial uses of San Francisco Bay in the vicinity of the discharge are:
 - a. Water contact recreation
 - b. Non-contact water recreation
 - c. Commercial and sport fishing
 - d. Marine habitat
 - e. Fish spawning
 - f. Fish migration
 - g. Wildlife habitat
 - h. Navigation
5. The Basin Plan prohibits discharge of any wastewater which has particular characteristics of concern to beneficial uses at any point at which the wastewater does not receive an initial dilution of at least 10:1.
6. Chapter 3, Title 23, Subchapter 14 of the California Administrative Code requires a grade II operator to supervise a municipal biofilter treatment plant with a design flow of up to 1.0 million gallons per day.

*Property owners names and addresses are listed in Attachment A.

7. The State Policy For Water Quality Control requires sewage facilities to be consolidated for long-range economic and water quality benefits.
8. The Dischargers are presently governed by Waste Discharge Requirements Resolution No. 139 which allows discharge to San Francisco Bay.
9. As this project approval is an NPDES permit, this Board, pursuant to Water Code Section 13389, is not required to comply with the provisions of Chapter 3 of Division 13 of the Public Resources Code (California Environmental Quality Act).
10. The Board has notified the Dischargers and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
11. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, and to the provision of the Federal Water Pollution Control Act, as amended, and regulations and guidelines adopted thereunder, that the Dischargers shall comply with the following:

A. Effluent Limitations

1. The discharge of an effluent containing constituents in excess of the following limits is prohibited:

<u>Constituents</u>	<u>Units</u>	<u>30-Day Average</u>	<u>7-Day Average</u>	<u>Maximum Daily</u>	<u>Instantaneous Maximum</u>
a. Settleable Matter	ml/l-hr	0.1	-	-	0.2
b. BOD	mg/l	30	45	60	-
c. Suspended Solids	mg/l	30	45	60	-
d. Grease & Oil	mg/l	10	-	20	-
e. Chlorine Residual	mg/l	-	-	-	0.0

2. The arithmetic mean of values for BOD and Suspended Solids in effluent samples collected in a period of 30 consecutive days shall not exceed 15 percent of the arithmetic mean of respective values for influent samples collected at approximately the same times during the same period (i.e., 85 percent removal).
3. The discharge shall not have pH of less than 6.5 nor greater than 8.5.

4. In any representative set of samples the waste as discharged shall meet the following limit of quality:

TOXICITY:

The survival of an acceptable test organism in 96 hour bioassays of the effluent shall achieve a 90 percentile value of not less than 50 percent survival.

5. The total coliform bacteria for a median of five consecutive effluent samples shall not exceed 240 per 100 milliliters. Any single sample shall not exceed a most probable number (MPN) of 10,000 total coliform bacteria per 100 milliliters when verified by a repeat sample taken within 48 hours.

B. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place:
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - b. Bottom deposits or aquatic growths;
 - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;
 - d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
 - e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:
 - a. Dissolved oxygen 5.0 mg/l minimum. Annual median - 80% saturation. When natural factors cause lesser concentration(s) than those specified above, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.
 - b. Dissolved sulfide 0.1 mg/l maximum.
 - c. pH Variation from natural ambient pH by more than 0.2 pH units.

- d. Un-ionized Ammonia 0.025 mg/l annual median
 as N 0.4 mg/l maximum
- e. Nutrients 50 µg/l chlorophyll a maximum. When
 background levels exceed this requirement,
 then this discharge shall not add further
 nutrients.

- 3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

C. Prohibitions

- 1. The discharge of wastewater at any point at which the wastewater does not receive an initial dilution of at least 10:1 is prohibited.
- 2. There shall be no bypass or overflow of untreated wastewater to waters of the State, either at the plant or from the collection system.
- 3. The average dry weather flow shall not exceed 7,500 gpd. Average shall be determined over three consecutive months each year.

D. Provisions

- 1. The Dischargers shall employ a Class II certified sewerage treatment plant operator to supervise operation of the sewage treatment plant or demonstrate to the Executive Officer's satisfaction that an equivalent level of supervision is being maintained.
- 2. The Dischargers shall submit to the Executive Officer a contingency plan for the continuous operation of facilities for the collection, treatment and disposal of waste pursuant to Regional Board Resolution No. 74-10.
- 3. The Dischargers shall review and update their contingency plan annually as required by Board Resolution No. 74-10. The discharge of pollutants in violation of this Order where the Dischargers have failed to develop and/or implement a contingency plan will be basis for considering such discharge a willful and negligent violation of this Order pursuant to Section 13387 of the California Water Code.
- 4. The Dischargers shall comply with the following time schedule to assure compliance with Effluent Limitations A.1., A.2., A.3., and A.4.; Receiving Water Limitations B.1.a., B.1.c., B.2.c., B.2.d., and B.2.e.; Prohibition C.1.; and Provisions D.1., D.2., and D.3. of this Order:

<u>Task</u>	<u>Completion Date</u>
a. Dischargers shall report on whether they will form an agency which is eligible to receive a sewerage improvement grant or pay the entire cost of needed improvements by themselves.	October 1, 1979
b. Dischargers shall submit a schedule of actions to be taken to assure compliance with this Order. The schedule shall include the following actions:	October 1, 1979
1. Report on whether the sewage from Seafirth Estates will be pumped to another entity for treatment and discharge, or be treated by Seafirth Estate property owners in their treatment plant.	
2. Report on how the necessary construction will be financed.	
3. If sewage is to be pumped to another entity, include dates for:	
a. Complete all necessary agreements	
b. Begin pump station and force main design	
c. Complete design	
d. Award contract	
e. Complete construction	
f. Full compliance	
4. If sewage is to be treated by Seafirth Estates property owners in their treatment plant, include dates for:	
a. Report on how 10 to 1 dilution will be achieved and documented	
b. Complete necessary outfall improvements	
c. Report on treatment plant improvements necessary to achieve compliance	

- d. Begin design for each necessary treatment plant improvement
 - e. Complete design for each necessary treatment plant improvement
 - f. Begin construction of each necessary treatment plant improvement
 - g. Complete construction of each necessary treatment plant improvement
 - h. Achieve compliance with each of the above listed requirements
 - i. Submit a contingency plan for the continuous operation of facilities
5. The requirements prescribed by this Order supersede the requirements prescribed by Resolution No. 139 adopted by the Board on September 17, 1953. Resolution No. 139 is hereby rescinded.
 6. The Dischargers shall comply with the Self-Monitoring Program as ordered by the Executive Officer.
 7. The Dischargers shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977.
 8. This Order expires **February 1, 1984**. The Dischargers must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.
 9. This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act or amendments thereto, and shall become effective 10 days after date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on March 20, 1979.

Attachments:

- A. List with Names & Addresses of Property Owners
- B. Standard Provisions, Reporting Requirements & Definitions
- C. Self-Monitoring Program

FRED H. DIERKER
Executive Officer

Attachment A to Order No.

SEAFIRTH PROPERTY OWNERS

1978

1. Bergsund, Richard & Joan	55 Seafirth Road
2. Britton, Philip & Miriam	4020 Paradise Drive
3. Broner, Solomon & Barbara	30 Seafirth Road
4. Cardoza, Dick & Donna	4000 Paradise Drive
5. Denton, Chuck & Jean	40 Seafirth Road
6. Fairley, Barrie & Jean	45 Seafirth Road
7. Ford, Tom Jr. & Catherine	30 Seafirth Place
8. Guyol, Jack	80 Seafirth Road
9. Helmholtz, Eckhart & Edith	90 Seafirth Road
10. Kelly, Dorothy (Mrs. Frank J.)	36 Seafirth Road
11. Levatin, Paul & Evelyn	65 Seafirth Road
12. Marshall, Joe & Charlotte	75 Seafirth Road
13. Miller, Jack & Frances	60 Seafirth Road
14. McClelland, Ruby (Mrs.)	5 Seafirth Place
15. McLoughlin, Terry & Carol	17 Seafirth Road
16. O'Neill, Janet (Mrs. John S.)	20 Seafirth Road
17. Peterson, Lothar (Pete) & Marie	10 Seafirth Road
18. Sagabiel, Richard & Daisy	9 Seafirth Place
19. Sanford, John & Helen	49 Seafirth Place
20. Schellenberg, W.A. & Jane	15 Seafirth Place
21. Solberg, Bjorn & JoAnn	70 Seafirth Road
22. Souza, Leo & Maxine	3 Seafirth Lane
23. Sterling, Gary & Kathe	4030 Paradise Drive
24. Stern, Edward & Dorothy	95 Seafirth Road
25. Swanson, Robert & Sandra	2 Seafirth Lane
26. Thelander, Jo	40 Seafirth Place
27. Watson, Richard & Geraldine	20 Seafirth Place
28. Wright, Henry & Marina	85 Seafirth Road
29. Wortsman, Lester & Joan	50 Seafirth Road